1 **METHODS**
2 .Comprising utilization of a pattern
3 ..And modification of the pattern or its effectiveness
4 **WITH TYPE-WIDTH AND INTER-WORD-SPACE TOTALIZER OR INDICATOR (I.E., FOR JUSTIFICATION)**
5 .Embodying exchangeable sub-assembly unit for font change
6 .Embodying means to facilitate error correction
7 .Embodying means to tabulate or to adjust line length
8 .Embodying means to insert justification symbol
9 ..With means to effect selection of justification tools
10 ...With means to insert justification symbol at other than end of line
11 .Embodying means to drive totalizer
12 .."Unit-Wheel" type of counter
13 **WITH MEANS TO IMPOSE PROGRAMMED CONTROL OF AUXILIARY-OPERATION**
14 .Embodying means to change code
15 .Embodying means to afford choice of programs
16 .Embodying means to shift control between plural input sources
17 ..Diverse sources
18 .Embodying means to effect selection or shift or skip of field
19 ..With change in feed of pattern or work
20 .For start or stop of control from given input source
21 .For stopping after predetermined number of operations
22 **WITH MEANS TO IMPOSE RANDOMLY ACTUATED CONTROL OF AUXILIARY-OPERATION**
23 .Embodying means to detect order of occurrence of input data
24 ..Zero suppression or insertion
25 .Embodying means to detect indicium in work or pattern
26 ..With group number control of recording
27 ...With control of feed of pattern and/or work
28 ..With means to control feed
29 ...Control of pattern feed
30 .Stopping means
32 ..Upon detection of machine defect or misoperation
33 ...With means to check on tool actuation
34 ....With verifier (data comparator)
35 **WITH INPUT MEANS COMMON TO TOOL SELECTOR AND PRINTER**
36 .Step by step printer
37 ..On same workpiece
38 **WITH NONSELECTIVE CUTTING OR PUNCHING MEANS**
39 .Work sizing or cyclic (e.g., feed hole) punching
40 **WITH SORTING MEANS OR COPY HOLDER**
41 **CONVERTIBLE**
42 **PLURAL TOOL FIELDS**
43 .With means to select a given field
44 ..By manually settable means
45 .With independent manual input means
46 **NOTCHING OR SLITTING MEANS**
47 .Notching
48 ..Uniform depth
49 **MEANS FOR CUTTING MOVING WORK**
50 .Flying cutter
51 **EMBODYING UNICYCLIC TOOL ACTUATING MEANS**
52 **WITH INTERLOCK BETWEEN TOOL ACTUATOR AND SELECTOR**
53 **WITH MEANS TO ESTABLISH CONTROL PATH, FROM ONE OF A PLURALITY OF INPUT SOURCES, TO TOOL SELECTION MEANS**
54 .Diverse input sources
55 **WITH MEANS TO STORE AND RETRIEVE INPUT DATA AFTER REMOVAL OF INPUT-IMPULSE**
56 .With read-out in different order
57 .With optionally settable means to clear storage upon read-out
58 .With serial read-out from storage
59 **WITH MEANS TO INITIATE TOOL SELECTION BY SENSING PATTERN INDICIA OR CONFIGURED MACHINE ELEMENT**
60 .Means to sense cyclically movable machine element

61 ..Serial number punching of work
62 .With repeated sensing of same pattern field
63 .Pattern indicia carried by work
64 ..Processed work as pattern for following work
65 .Including plural input means, jointly effective
66 .Serial read-out from full bank of pattern-sensers
67 .With means to modify effect of pattern data
68 ..By inversion of pattern data
69 ..Code conversion
70 ...Combinational-code to or from one-hole-code
71 ..Means for timing the tool actuation
72 ..Means for transposition, shift or suppression of field
73 ...By adjustable electrical means
74 .By a senser with more than two output signals
75 .Pattern or senser in motion during sensing
76 .Sensing by tool directly engageable with pattern
77 ..Tool actuation blocked by pattern
78 ..Tool actuating force transmitted by pattern
79 .With means to feed pattern or pattern sensing means
80 ..With means to adjust pattern position or feed, or senser
81 ..Senser moves tool into position to receive actuating force
82 ..Senser controls effectiveness of actuating force to selected tool pair only
83 ...Senser actuates tool
84 ..Interposer movable by senser
85 ...Integral or fixed thereto
86 ...Biased interposer and senser
87 ..Senser controls application of power to interposer
88 ...Connects or disconnects interposer linkage and cyclically movable actuator
89 .Pattern or record and/or sensing means per se
90 **WITH MEANS TO CAUSE DELAYED ACTUATION OF SELECTED TOOL**
91 .With plurality of selecting means sequentially controlled by one input means
92 **WITH OPTIONALLY SETTABLE MEANS TO CLEAR TOOL SELECTION**
93 .Effective on portion of tool field
94 **WITH SPECIFIC MEANS TO SELECT A PLURALITY OF TOOLS (I.E., COMBINATIONAL CODING MEANS)**
95 .Successively
96 .With means to change or facilitate change of code
97 .Coded interposer
98 ..Differentially positioned
99 ...Turret of interposers
100 ....Power transmitting
101 ..Power driven
102 .Coded selector means
103 ..Actuates contacts
104 ..Paired bars
105 ..Selector means drives interposers
106 .Direct punching (coded actuation)
107 ..With power means to actuate tools
108 ...Individual electrical drives
109 **WITH SPECIFIC MEANS TO SELECT A SINGLE TOOL**
110 .By immobilizing a portion of an element in tool drive train
111 .Interposer
112 ..Differentially positioned
113 ...Turret of interposers
114 ..Power driven
115 ...By individual electric means
116 ..Reciprocable in a straight line
117 .Means to move an element of the tool drive train into power transmitting relationship with a power source
118 ..Shiftable element is the tool
119 ..Continuously rotating actuator
120 **WITH INPUT MEANS OTHER THAN PATTERN SENSER TO CONTROL TOOL SELECTION**
121 .Differentially positionable input element (e.g., lever)
122 .Plural input channels
123 ..Keyboard
124 ...With auxiliary function control means

125 ....Repeat key
126 **WITH MEANS TO VARY WORK FEED INCREMENT**
127 .Dependent upon tool(s) selected
128 **WITH WORK HOLDER OR MOVER**
129 .With reversible work-feed (e.g., with back spacer)
130 .With cyclically advanced work carrier
131 **MISCELLANEOUS**

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FOR **CLASS-RELATED FOREIGN DOCUMENTS**

DIGESTS

DIG 1 **FLUID AND PHOTOELECTRIC CONTROL**